NO.NC/QC/YD/2020-21/W3P

Date: 03-06-2021

To,
The Executive Engineer,
Yelahanka Division
Bangalore.

"FREQUENCY AND QUALITY REPORT"

Dear Sir,

Subject: Regarding Quality Report for the below mentioned work.

Name of Work: Development of Parks and Providing Children Playing Equipment in Ward No - 03 of Yelahanka Satellite town Sub division (Package -08)

Item No	Description of work	Unit	Qty	No of Samples Tested	Frequency	Results Standards
1	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and	Cum	82.06	2	Per 100 cum	Meets Morth V Revision Standards
2	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6,	Cum	128.19	1	Per 100 cum	Meets Morth V Revision Standards
3	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and	Cum	25.73	2	Per 50 cum	Meets Morth V Revision Standards
4	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165	KS	964.00	2	Per 500 Nos	Meets Morth V Revision Standards
5	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring	Sqm	359.03	1	Per 500 Sqm	Meets Morth V Revision Standards
6	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet	Cum	35.88	1	Per 200 cum	Meets Morth V Revision Standards
7	KSRB 14.6 : Providing and laying heavy duty cobble stones interlock pavers, using cement and course sand for manufacture	Sqm	239.22	1	Per 500 Sqm	Meets Morth V Revision Standards

With respect to the above subject & name of the work, we have inspected the work and the Quantity and Quality of above mentioned items of the work was found to be completed satisfactorily for the 1st and Final bill. The all the samples satisfies the standards requirements as per MORTH V Revision 2013.

Thanking you,

With Regards,

For Newzen Consultants Bangalore

NEWZEN CONSULTANT ★ Bangalore ★

NC/QC/CD/2020-21/YD/W3P-C1

Date: 04-02-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Development of Parks and Providing Children Playing Equipment in Ward No - 03 of Yelahanka Satellite town Sub division (Package -08).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka New Twon Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ramesh.Y.B, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	152 min	Shall not be less than 30 min
2	Final setting time	272 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.03%	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.09 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.71 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

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NEWZEN CONSULTANT Bangalore

NC/QC/CD/2020-21/YD/W3P-C2 Date: 08-02-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Development of Parks and Providing Children Playing Equipment in Ward No - 03 of Yelahanka Satellite town Sub division (Package -08).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka New Twon Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Ramesh.Y.B, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	158 min	Shall not be less than 30 min
2	Final setting time	263 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.19 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.01 mm	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	28.41 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

Page No. 1/1,

NEWZEN CONSULTANT Bangalore

NC/QC/CD/2020-21/YD/W3P-CE1 Date: 15-02-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Development of Parks and Providing Children Playing Equipment in Ward No - 03 of Yelahanka Satellite town Sub division (Package -08).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka New Twon Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Ramesh.Y.B, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	161 min	Shall not be less than 30 min
2	Final setting time	282 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.07 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.19 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.44 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
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NC/QC/CD/2020-21/YD/W3P-CA1

Date: 15-02-2021

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Development of Parks and Providing Children Playing Equipment in Ward No - 03 of Yelahanka Satellite town Sub division (Package -08).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka New Twon Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Ramesh.Y.B, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	94.20	85-100	90 - 100
10 mm	48.85	0 - 20	25 - 55
4.75 mm	3.45	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS 383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	26.16 %	Not to exceed 25 %
2.	Crushing value	28.59 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/CD/2020-21/YD/W3P-W1

Date: 01-03-2021

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Development of Parks and Providing Children Playing Equipment in Ward No - 03 of Yelahanka Satellite town Sub division (Package -08).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka New Twon Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Ramesh Y.B, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	96.05	95-100
26.50	---	-
22.40	74.10	60-80
11.20	53.85	40-60
4.75	36.60	25-40
2.36	20.80	15-30
0.600	19.90	8-22
0.075	4.30	0-5

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/CD/2020-21/YD/W3P-K2

Date: 09-03-2021

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Development of Parks and Providing Children Playing Equipment in Ward No - 03 of Yelahanka Satellite town Sub division (Package -08).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka New Twon Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ramesh.Y.B, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.37	23.30	23.16	As per Cl. 6.2.2 of IS 456-2000, fcr=0.7√ fck
2	002	3.32	22.50		
3	003	3.40	23.70		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.38	4.46
2	002	4.46	
3	003	4.55	

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/CD/2020-21/YD/W3P-CB2

Date: 20-03-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Development of Parks and Providing Children Playing Equipment in Ward No - 03 of Yelahanka Satellite town Sub division (Package -08).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka New Twon Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Ramesh Y.B, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-03-21	20-03-21	07	22500	305	13.56	13.63
	002	"	"	"	"	300	13.33	
	003	"	"	"	"	315	14.00	

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/CD/2020-21/YD/W3P-CB2A **Date: 10-04-2020**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Development of Parks and Providing Children Playing Equipment in Ward No - 03 of Yelahanka Satellite town Sub division (Package -08).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka New Twon Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Ramesh.Y.B, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-03-21	10-04-21	28	22500	415	18.44	18.67
	002	"	"	"	"	430	19.11	
	003	"	"	"	"	415	18.44	

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/CD/2020-21/YD/W3P-DS

Date: 26-03-2021

TEST REPORT

Sub: Testing of Pre-cast (DESINER TILES)
{Project*: Development of Parks and Providing Children Playing Equipment in Ward No - 03 of Yelahanka Satellite town Sub division (Package -08).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka New Twon Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ramesh.Y.B, Bangalore.

PHYSICAL TESTS ON PRECAST DESINER TILES

I. WET TRANSVERSE STRENGTH:

Sl No	Identification	Wet Transverse Strength , N/mm^2	Average Wet Transverse Strength , N/mm^2	Requirement as per IS : 1237-1980 (Reaffirmed 1190)
1	001	4.45	4.32	The average wet transverse strength should not be less than 3.00 N/sq mm
2	002	4.20		
3	003	4.30		

The result of the materials tested meets the standards and hence can be used for the work.

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	3.85	4.04
2	002	4.18	
3	003	4.10	

The result of the materials tested meets the standards and hence can be used for the work.

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